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(12) **United States Design Patent**  
**Lam**

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(54) **HAND-OPERABLE VACUUM PUMP**

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(72) Inventor: **Kevin Lam**, Hong Kong (HK)

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(\*\*) Term: **15 Years**

(21) Appl. No.: **29/562,059**

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(51) **LOC (11) Cl.** ..... **15-02**

(52) **U.S. Cl.**  
USPC ..... **D15/7; D24/215**

(58) **Field of Classification Search**  
USPC ..... D15/7-9; D23/231, 232, 225; 417/60,  
417/235, 265, 321, 355, 358, 363, 359,  
417/410.1, 415-416, 405, 900, 269, 539;  
60/408, 412; 184/26-37; 415/140-147;  
123/495, 509; 137/565.34; D24/215  
CPC ..... F02M 37/04; F02M 37/14; F04B 53/92;  
F04B 1/005  
See application file for complete search history.

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(57) **CLAIM**

The ornamental design for a hand-operable vacuum pump, as shown and described.

**DESCRIPTION**

FIG. 1 is a top perspective view of a hand-operable vacuum pump showing my new design, with the pump being connected to a vacuum chamber by way of a detachable tube. FIG. 2 is a bottom perspective view thereof. FIG. 3 is a front elevation view of thereof. FIG. 4 is a rear elevation view thereof. FIG. 5 is a right side elevation view thereof. FIG. 6 is a left side elevation view thereof. FIG. 7 is top view thereof; and, FIG. 8 is a bottom view thereof. The broken lines showing the detachable tube and vacuum chamber are for environmental purposes only and form no part of the claimed design.

**1 Claim, 8 Drawing Sheets**

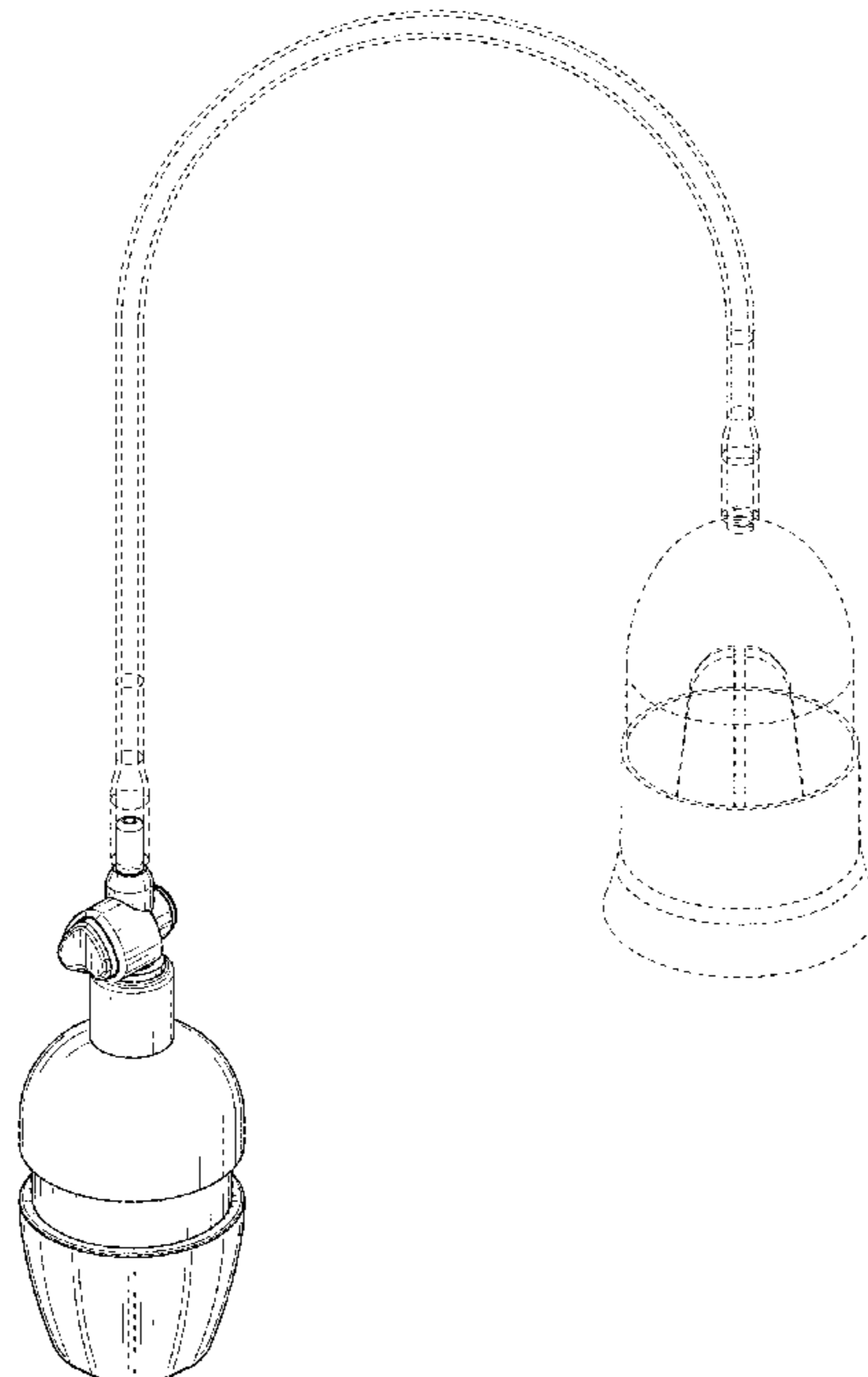


FIG. 1

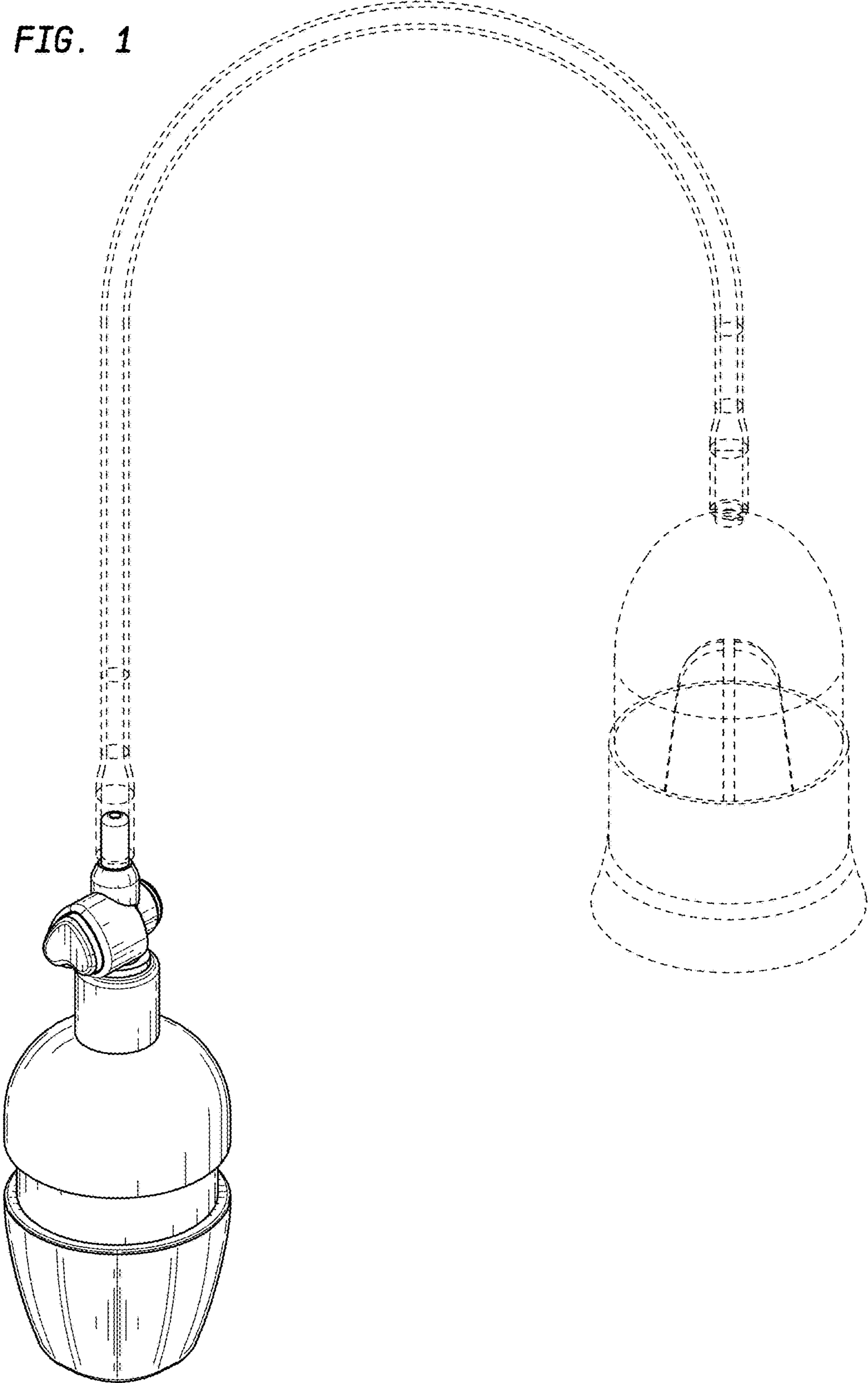


FIG. 2

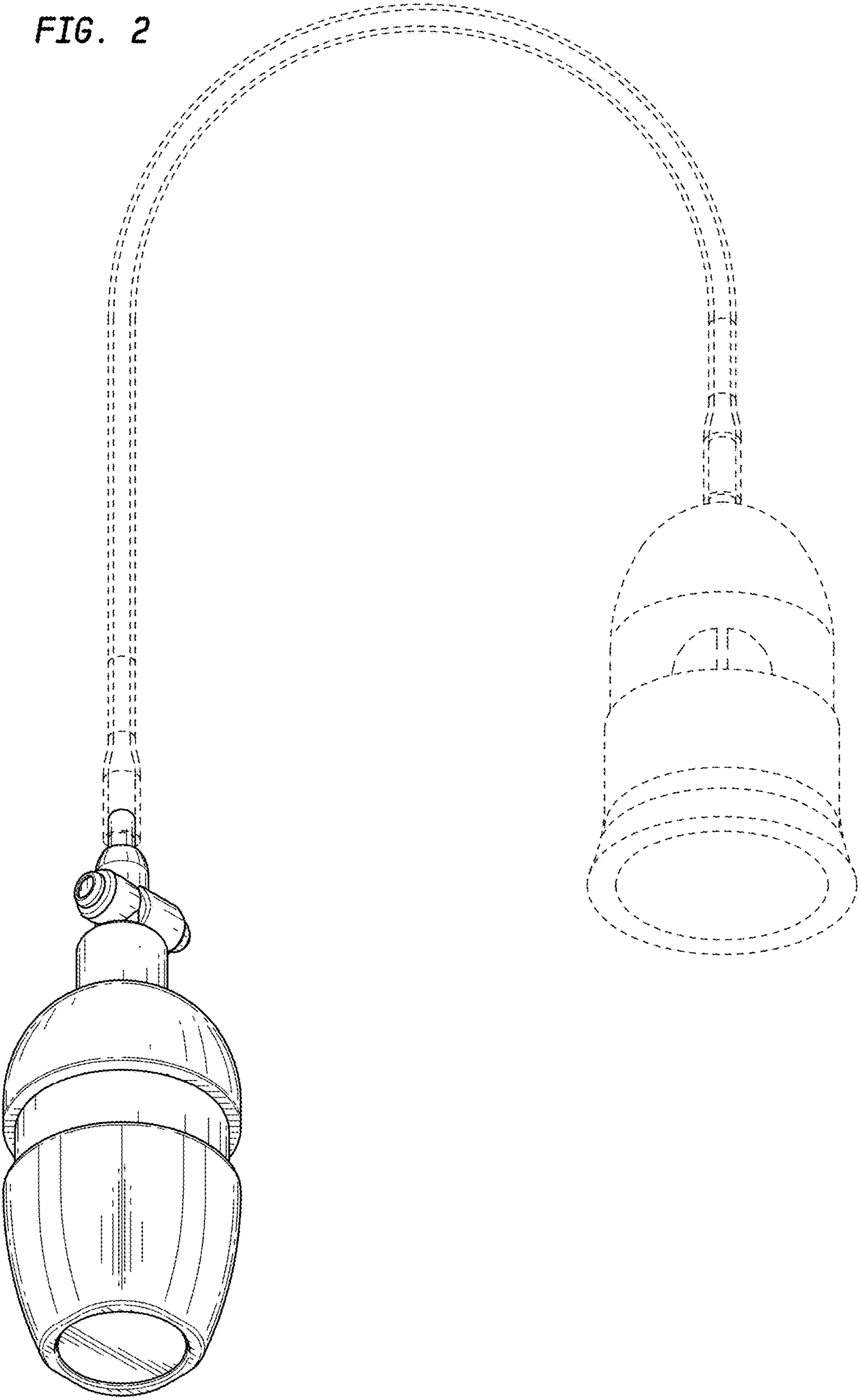


FIG. 3

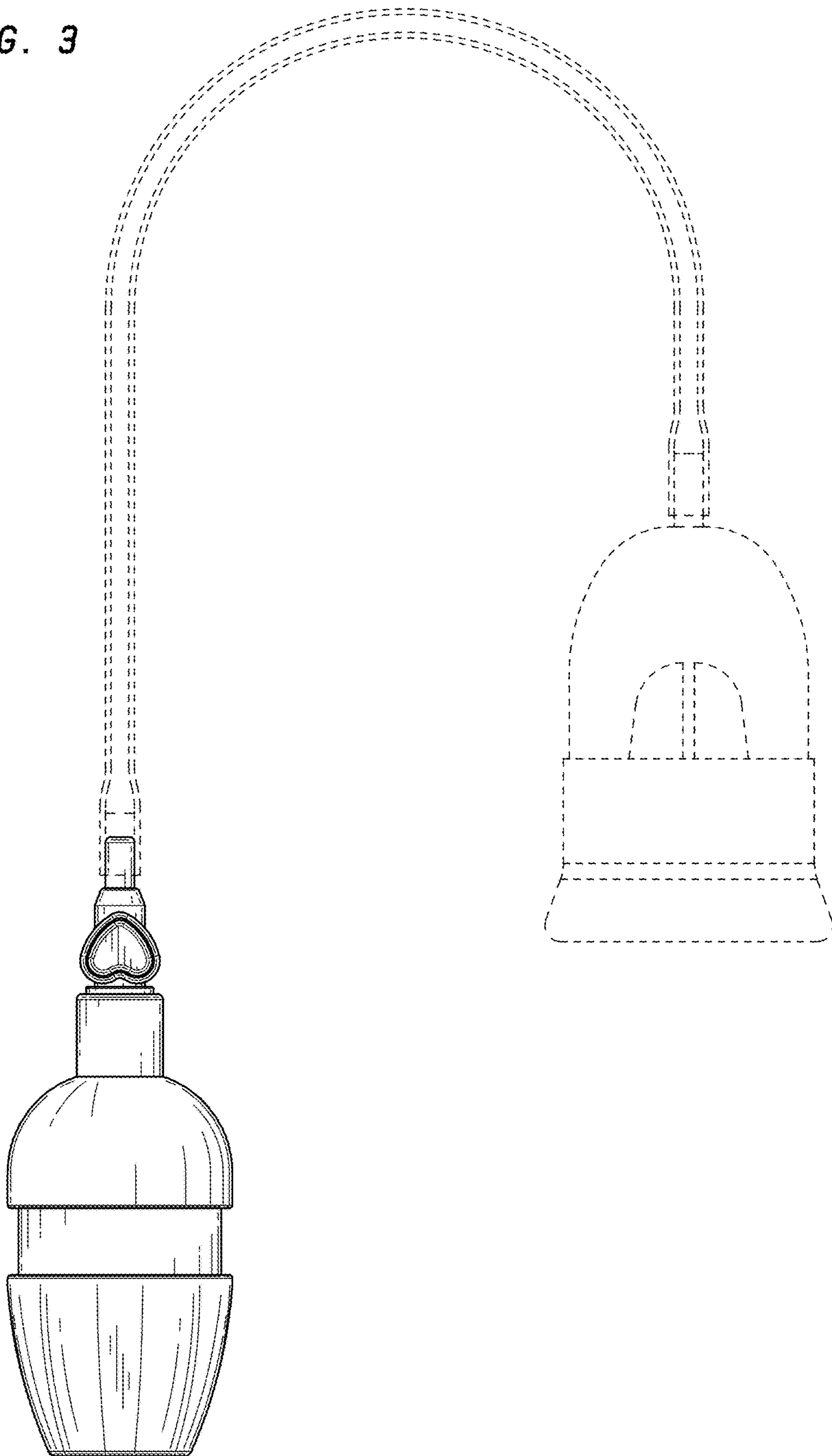


FIG. 4

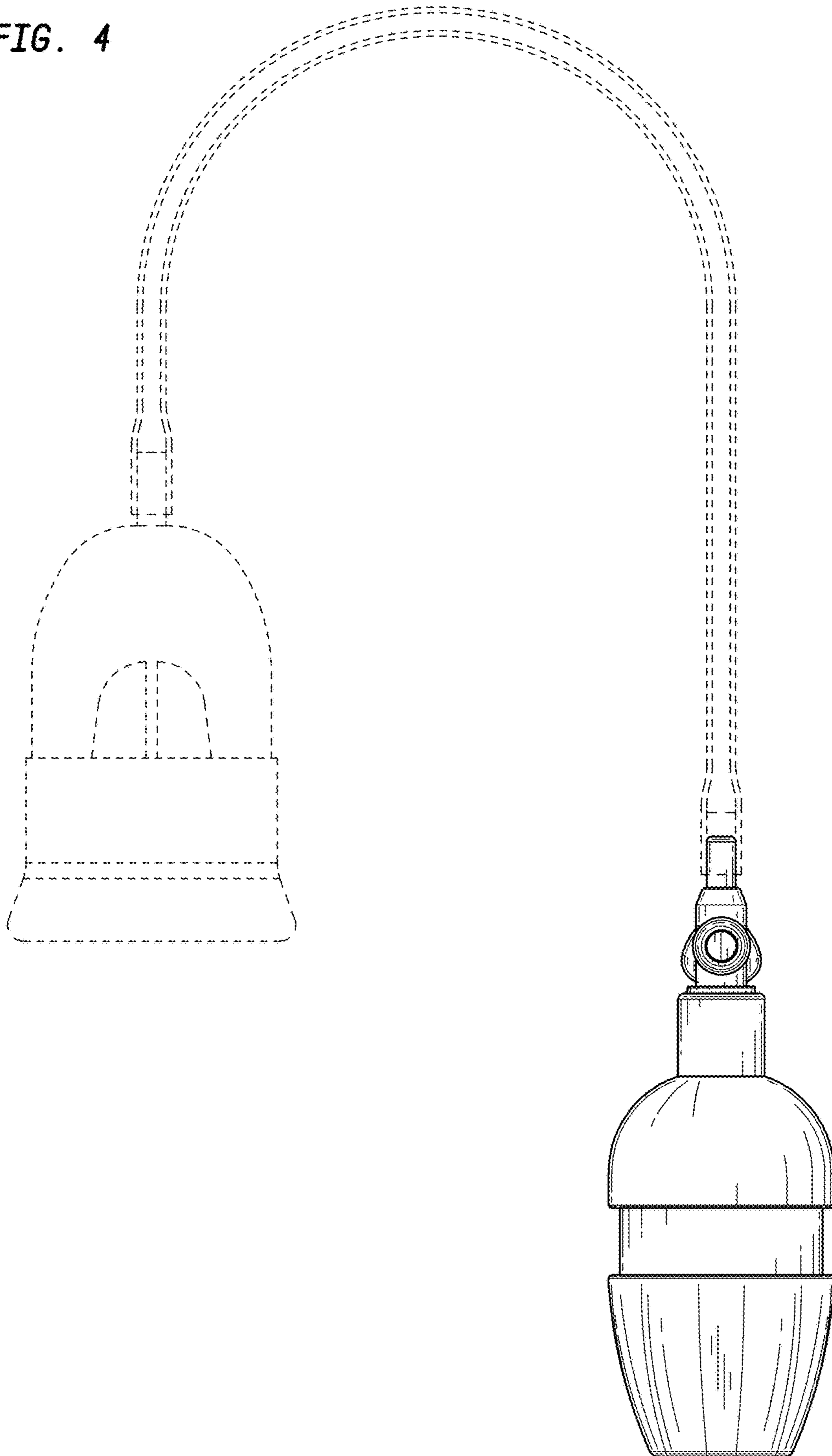




FIG. 5

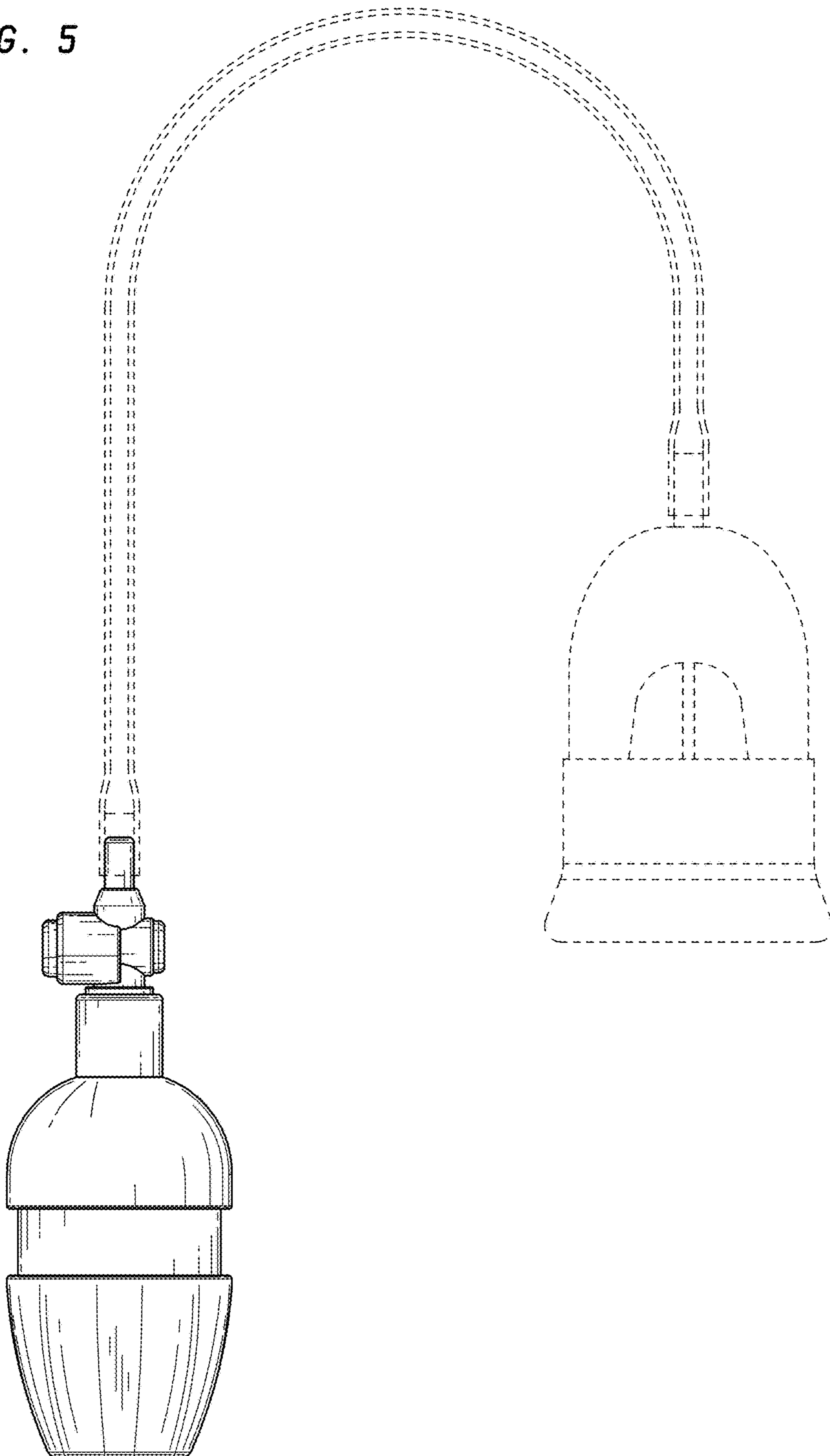


FIG. 6

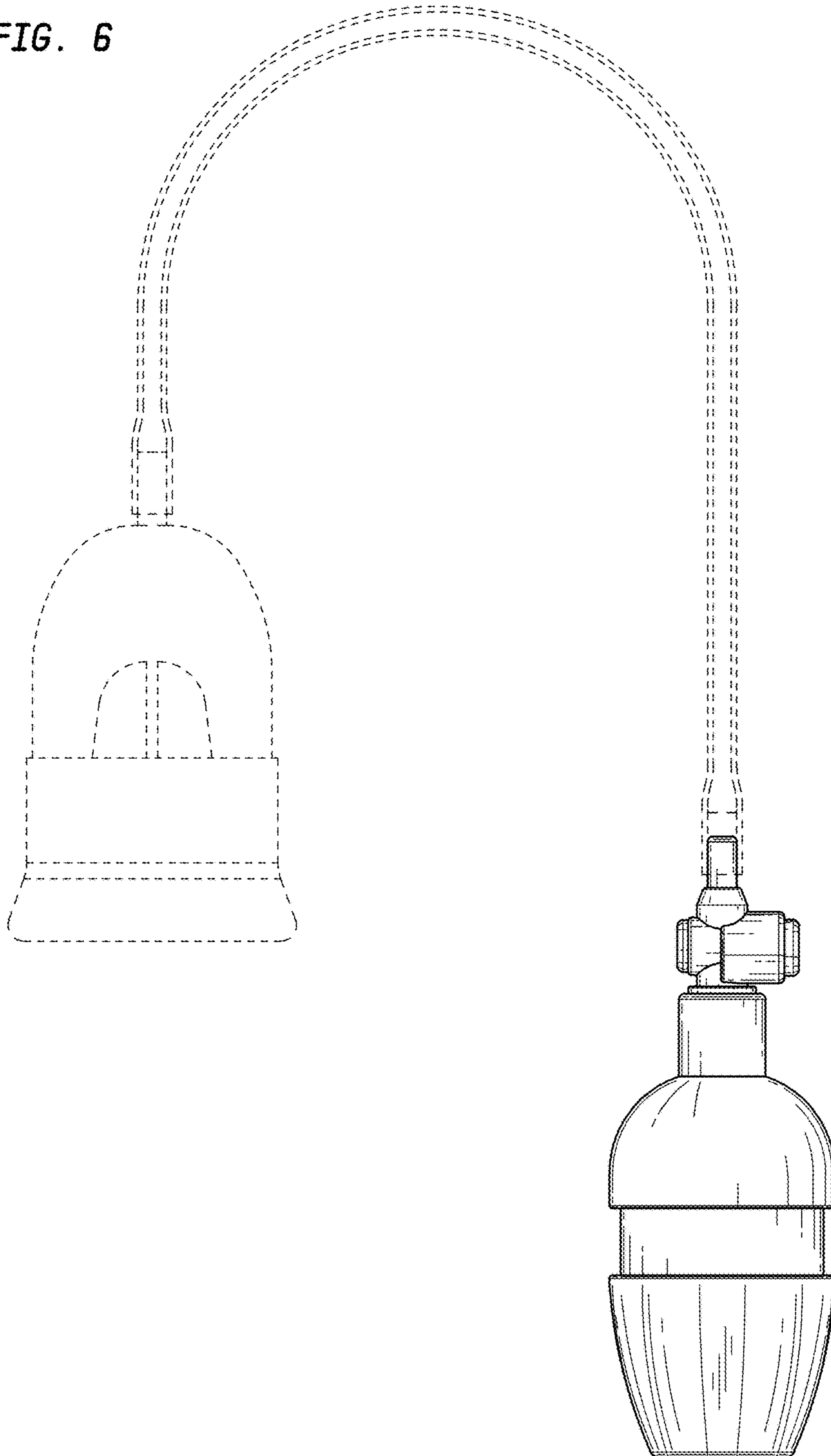
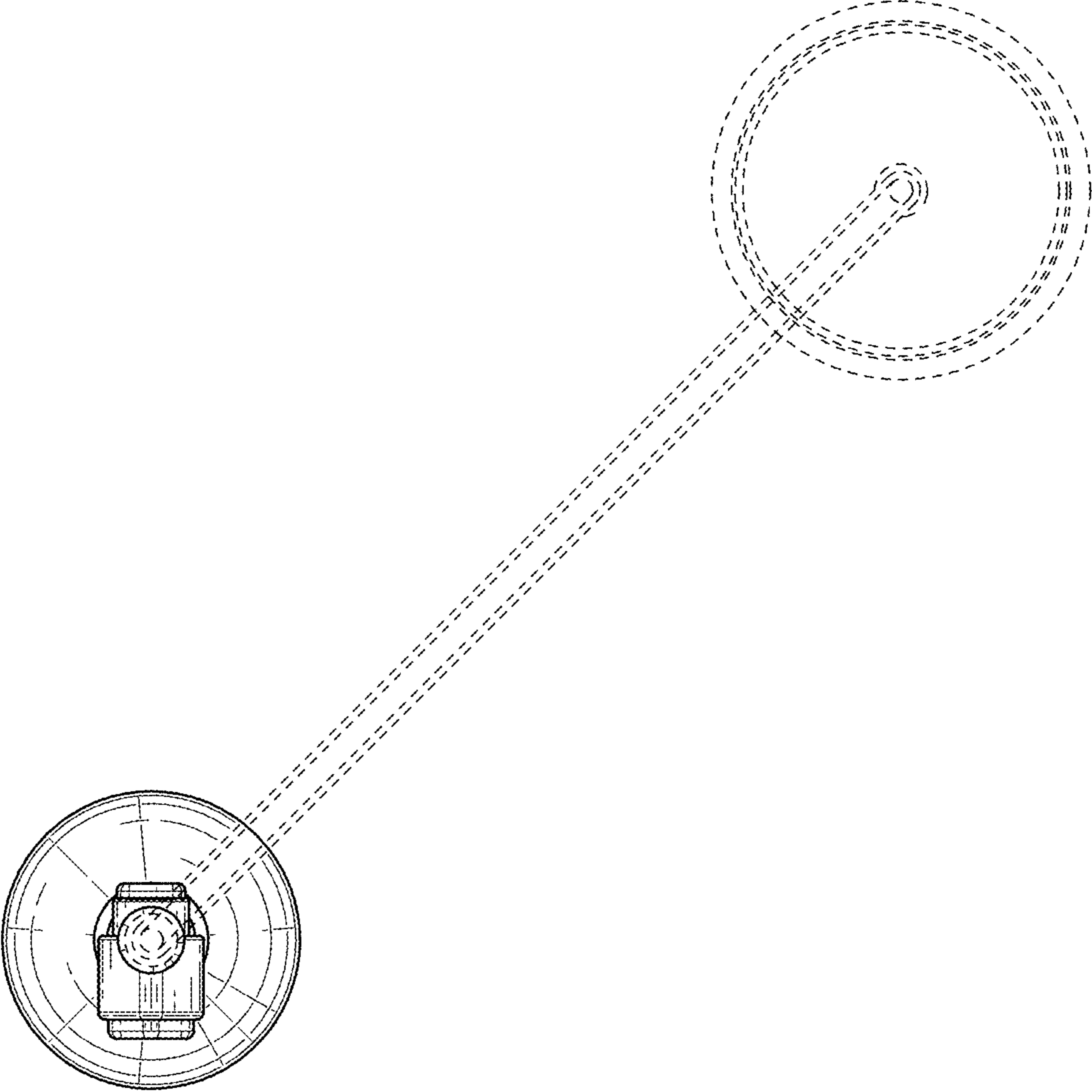


FIG. 7





*FIG. 8*

